

- (c) the nucleic acid sequence of SEQ ID NO:5,
- (d) the nucleic acid sequence of SEQ ID NO:7,
- (e) the nucleic acid sequence of SEQ ID NO:9,
- (f) the nucleic acid sequence of SEQ ID NO:10,
- (g) the nucleic acid sequence of SEQ ID NO:11, and
- (h) the nucleic acid sequence of SEQ ID NO:12.

93) (New) The plasmid of Claim 92 wherein said plasmid is an expression vector.

94) (New) The plasmid of Claim 93 wherein said expression vector is a viral vector.

95) (New) The plasmid of Claim 94 wherein said viral vector is a gene therapy vector.

96) (New) The plasmid of Claim 93 wherein said expression vector is a bacterial expression vector.

97) (New) A plasmid comprising a nucleic acid sequence encoding a polypeptide sequence selected from the group consisting of:

- (a) the polypeptide sequence of SEQ ID NO:2,
- (b) the polypeptide sequence of SEQ ID NO:4,
- (c) the polypeptide sequence of SEQ ID NO:6, and
- (d) the polypeptide sequence of SEQ ID NO:8.

98) (New) The plasmid of Claim 97 wherein said plasmid is an expression vector.

99) (New) The plasmid of Claim 98 wherein said expression vector is a viral vector.

100) (New) The plasmid of Claim 99 wherein said viral vector is a gene therapy vector.

101) (New) The plasmid of Claim 98 wherein said expression vector is a bacterial expression vector.

102) (New) A plasmid comprising an oligonucleotide of at least 8 consecutive nucleotides selected from a sequence unique to SEQ ID NO:1, 3, 5 or 7 or the complement of SEQ ID NO:1, 3, 5 or 7.

99

103) (New) The plasmid of Claim 102 comprising an oligonucleotide of at least 9 consecutive nucleotides selected from a sequence unique to SEQ ID NO:1, 3, 5 or 7 or the complement of SEQ ID NO:1, 3, 5 or 7.

104) (New) The plasmid of Claim 102 comprising an oligonucleotide of at least 10 consecutive nucleotides selected from a sequence unique to SEQ ID NO:1, 3, 5 or 7 or the complement of SEQ ID NO:1, 3, 5 or 7.

105) (New) The plasmid of Claim 102 comprising an oligonucleotide of at least 11 consecutive nucleotides selected from a sequence unique to SEQ ID NO:1, 3, 5 or 7 or the complement of SEQ ID NO:1, 3, 5 or 7.

106) (New) The plasmid of Claim 102 comprising an oligonucleotide of at least 12 consecutive nucleotides selected from a sequence unique to SEQ ID NO:1, 3, 5 or 7 or the complement of SEQ ID NO:1, 3, 5 or 7.

107) (New) The plasmid of Claim 102 comprising an oligonucleotide of at least 13 consecutive nucleotides selected from a sequence unique to SEQ ID NO:1, 3, 5 or 7 or the complement of SEQ ID NO:1, 3, 5 or 7.

108) (New) The plasmid of Claim 102 comprising an oligonucleotide of at least 14 consecutive nucleotides selected from a sequence unique to SEQ ID NO:1, 3, 5 or 7 or the complement of SEQ ID NO:1, 3, 5 or 7.

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109) (New) The plasmid of Claim 102 comprising an oligonucleotide of at least 15 consecutive nucleotides selected from a sequence unique to SEQ ID NO:1, 3, 5 or 7 or the complement of SEQ ID NO:1, 3, 5 or 7.

110) (New) The plasmid of Claim 102 comprising an oligonucleotide of at least 16 consecutive nucleotides selected from a sequence unique to SEQ ID NO:1, 3, 5 or 7 or the complement of SEQ ID NO:1, 3, 5 or 7.

111) (New) The plasmid of Claim 102 comprising an oligonucleotide of at least 17 consecutive nucleotides selected from a sequence unique to SEQ ID NO:1, 3, 5 or 7 or the complement of SEQ ID NO:1, 3, 5 or 7.

112) (New) The plasmid of Claim 102 comprising an oligonucleotide of at least 18 consecutive nucleotides selected from a sequence unique to SEQ ID NO:1, 3, 5 or 7 or the complement of SEQ ID NO:1, 3, 5 or 7.

113) (New) A plasmid comprising an oligonucleotide of at least 8 consecutive nucleotides selected from a sequence unique to SEQ ID NO:9, 10, 11 or 12 or the complement of SEQ ID NO:9, 10, 11 or 12.

114) (New) The plasmid of Claim 113 comprising an oligonucleotide of at least 9 consecutive nucleotides selected from a sequence unique to SEQ ID NO:9, 10, 11 or 12 or the complement of SEQ ID NO:9, 10, 11 or 12.

115) (New) The plasmid of Claim 113 comprising an oligonucleotide of at least 10 consecutive nucleotides selected from a sequence unique to SEQ ID NO:9, 10, 11 or 12 or the complement of SEQ ID NO:9, 10, 11 or 12.

116) (New) The plasmid of Claim 113 comprising an oligonucleotide of at least 11 consecutive nucleotides selected from a sequence unique to SEQ ID NO:9, 10, 11 or 12 or the complement of SEQ ID NO:9, 10, 11 or 12.

117) (New) The plasmid of Claim 113 comprising an oligonucleotide of at least 12 consecutive nucleotides selected from a sequence unique to SEQ ID NO:9, 10, 11 or 12 or the complement of SEQ ID NO:9, 10, 11 or 12.

118) (New) The plasmid of Claim 113 comprising an oligonucleotide of at least 13 consecutive nucleotides selected from a sequence unique to SEQ ID NO:9, 10, 11 or 12 of the complement of SEQ ID NO:9, 10, 11 or 12.

119) (New) The plasmid of Claim 113 comprising an oligonucleotide of at least 14 consecutive nucleotides selected from a sequence unique to SEQ ID NO:9, 10, 11 or 12 of the complement of SEQ ID NO:9, 10, 11 or 12.

120) (New) The plasmid of Claim 113 comprising an oligonucleotide of at least 15 consecutive nucleotides selected from a sequence unique to SEQ ID NO:9, 10, 11 or 12 of the complement of SEQ ID NO:9, 10, 11 or 12.

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121) (New) The plasmid of Claim 113 comprising an oligonucleotide of at least 16 consecutive nucleotides selected from a sequence unique to SEQ ID NO:9, 10, 11 or 12 of the complement of SEQ ID NO:9, 10, 11 or 12.

122) (New) The plasmid of Claim 113 comprising an oligonucleotide of at least 17 consecutive nucleotides selected from a sequence unique to SEQ ID NO:9, 10, 11 or 12 of the complement of SEQ ID NO:9, 10, 11 or 12.

123) (New) The plasmid of Claim 113 comprising an oligonucleotide of at least 18 consecutive nucleotides selected from a sequence unique to SEQ ID NO:9, 10, 11 or 12 of the complement of SEQ ID NO:9, 10, 11 or 12.

- 124) (New) A cell comprising the expression plasmid of Claim 93 or 98.
- 125) (New) The cell of Claim 124 wherein said cell is a prokaryotic cell.
- 126) (New) The cell of Claim 125 wherein said prokaryotic cell is a *Escherichia coli* cell.
- 127) (New) The cell of Claim 124 wherein the cell is a eukaryotic cell.
- 128) (New) The cell of Claim 127 wherein the eukaryotic cell is a yeast cell.
- AG 129) (New) The cell of Claim 127 wherein the eukaryotic cell is an insect cell.
- 130) (New) The cell of Claim 127 wherein the eukaryotic cell is a vertebrate cell.
- 131) (New) The cell of Claim 130 wherein the vertebrate cell is a mammalian cell.
- 132) (New) The cell of Claim 131 wherein the mammalian cell is a rodent cell.
- 133) (New) The cell of Claim 132 wherein the rodent cell is a mouse cell.
- 134) (New) The cell of Claim 132 wherein the rodent cell is a rat cell.
- 135) (New) The cell of Claim 131 wherein the mammalian cell is a primate cell.